



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

HORN et al.

Atty. Ref.: 1585-257

Serial No. 09/748,144

Group: 2857

Filed: December 27, 2000

Examiner: Not Yet Assigned

For: METHOD AND APPARATUS FOR AUTOMATED
CRACK BEHAVIOR PREDICTION DETERMINATION

* * * * *

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

**EXCLUSIVE SUBSTITUTE POWER OF ATTORNEY
AND EXCLUSIVE PROSECUTION HEREAFTER BY
ASSIGNEE UNDER 37 C.F.R. §§ 1.36, 3.71 AND 3.73**

The undersigned being the owner of all right, title and interest in the above-identified patent application, hereby revokes all previous powers of attorney in this case, if any, and hereby appoints Nixon & Vanderhye, P.C., 1100 North Glebe Rd., 8th Floor, Arlington, Virginia 22201-4714, telephone number (703) 816-4000, facsimile number (703) 816-4100, and the following attorneys thereof (of the same address) individually and collectively its attorneys to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith, and with the resulting patent: Larry S. Nixon, 25640; Arthur R. Crawford, 25327; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393;

Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329; Joseph A. Rhoa, 37515; Raymond Y. Mah, 41426; Chris Comuntzis, 31097; Robert C. Lampe, Jr., 27915, General Electric Co., 1 River Road, Bldg. 37, 5th Floor, Schenectady, NY 12345; James Mitchell, 25602, General Electric Co., 3135 Easton Turnpike (W3C), Fairfield, CT 06431; James E. McGinness, 33260, GE Wilmington Facility, P.O. Box 780, Mail Code A11, Wilmington, NC 28401; Ronald E. Myrick, 26315, General Electric Co., 3135 Easton Turnpike (W3C), Fairfield, CT 06431; William B. Dyer III, 41725, GE Power Systems, 4200 Wildwood Parkway, 2-05C-05, Atlanta, GA 30339; Jay Chaskin, 24030, General Electric Co., 3135 Easton Turnpike (W3D62), Fairfield, CT 06431; Ernest G. Cusick, 39476, General Electric Co., 1 River Road, Bldg. 37, 5th Floor, Schenectady, NY 12345; Henry J. Policinski, 26621, General Electric Co., 3135 Easton Turnpike (W3E), Fairfield, CT 06431-0001; Bernard Snyder, 24843, General Electric Co., 3135 Easton Turnpike (W3E), Fairfield, CT 06431-0001; Catherine J. Winter, 38364, General Electric Co., 3135 Easton Turnpike (W3E), Fairfield, CT 06431-0001; and Tyler Maddry, 40074, General Electric Co., 1 River Road, Bldg. 37, 5th Floor, Schenectady, NY 12345.

I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions communicated from the person, attorney, firm or other organization sending instructions to Nixon & Vanderhye on behalf of the owner.

Certificate Under 37 C.F.R. §3.73(b)

I hereby certify that General Electric Company of 1 River Road, Schenectady, NY 12345 is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors to the aforesaid assignee, a copy of the assignment being attached.

I have reviewed the documents in the chain of title of the patent application identified above, and to the best of my knowledge and belief, title is in the aforesaid assignee for which I am empowered to act in this matter.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

HORN et al.
Serial No. 09/748,144

GENERAL ELECTRIC COMPANY

4/23/2001 By: James E. McGinness
Date Name: James E. McGinness
Title: Counsel, GE Nuclear Energy

ASSIGNMENT

In consideration of One Dollar and other good and valuable consideration, of which we acknowledge receipt, Ronald Martin Horn, F. Peter Ford, Peter L. Andresen and Jenny Y. Mui (hereinafter ASSIGNORS) of 1136 Fulton Street, Palo Alto, California 94301; 19 Nott Road, Rexford, New York 12148; 1204 Rugby Road, Schenectady, New York 12308 and 961 Nattinger Way, San Jose, California 95125, respectively, sell and assign to GENERAL ELECTRIC COMPANY, a New York Corporation, its successors and assigns, the entire right, title and interest in and to the improvements in METHOD AND APPARATUS FOR AUTOMATED CRACK BEHAVIOR PREDICTION DETERMINATION for which a so-entitled application for Letters Patent of the United States was filed in the United States Patent and Trademark Office on December 27, 2000 and assigned Serial No. 09/748,144; and any and all applications for patent and patents therefor in any and all countries, including all divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said GENERAL ELECTRIC COMPANY, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional,

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continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said improvements in all countries.

5/2/01

Date

Ronald Martin Horn

Ronald Martin Horn

State of California)

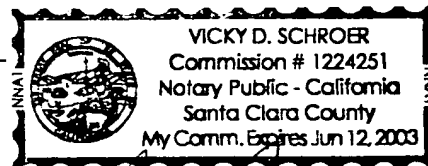
City of San Jose)

This 2nd day of May, 2001, before me personally came the above named Ronald Martin Horn, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Vicky D. Schroer

Notary Public

My Commission Expires



7th May 2001

Date

F. Peter Ford

F. Peter Ford

State of New York)

City of Schenectady)

This 7th day of May, 2001, before me personally came the above named F. Peter Ford, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Joanne A. Smith

Notary Public

My Commission Expires

JOANNE A. SMITH
Notary Public in the State of New York
Qualified in Schenectady Co.
No. 01SM5068633
My Commission Expires Nov. 4, 2002

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5/7/01

Date

Peter L. Andresen

Peter L. Andresen

State of *New York*)

City of *Schenectady*)

This 7th day of May, 2001, before me personally came the above named Peter L. Andresen, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Joanne A. Smith
Notary Public

My Commission Expires

JOANNE A. SMITH
Notary Public in the State of New York
Qualified in Schenectady Co.
No. 01SM5068633
My Commission Expires Nov. 4, 20 02

5/10/01

Date

Jenny Y. Mui
Jenny Y. Mui

State of *CALIFORNIA*)

City of *SAN JOSE*)

This 11TH day of MAY, 2001, before me personally came the above named Jenny Y. Mui, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Anna Hanlin
Notary Public

My Commission Expires

6-19-02



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